



## CERTIFICATE OF MAILING

Information Disclosure  
Statement submitted under 37  
C.F.R. 1.97(b)

Application Number	10/758,875
Filing Date	1/16/2004
First Inventor	Weiner, Michael L.
Examiner Name	Unknown
Art Unit	Unknown
Docket Number	MLW-630

DATE OF DEPOSIT: 3/23/2004

TITLE OF CASE:

Hybrid Nucleic Acid Assembly

The following documents are enclosed:

Certificate of Mailing (1 page)

Statement of Date of IDS (1 page)

IDS (8 pages)

Copy of references cited

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
application of

USSN 10/758,875	DOCKET MLW-630
GROUP NO. Unknown	CONFIRMATION NO. Unknown
FILED 1/16/2004	EXAMINER Unknown
TITLE Hybrid Nucleic Acid Assembly	

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT WITHIN THREE  
MONTHS OF FILING OR BEFORE MAILING OF FIRST OFFICE ACTION (37  
C.F.R. section 1.97(b))

IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION  
DISCLOSURE STATEMENT

1) The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. section 1.97(b).

or

2) The Information Disclosure Statement submitted herewith contains information that was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement. 37 C.F.R. section 1.97(e)(1).

Date 3/23/2004

Signature Peter J. Mikesell

Name Peter J. Mikesell

Reg. No. 54,311

Howard J. Greenwald P.C.  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 8

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Examiner Name	Unknown

Attorney Docket Number MLW-630

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6,180,385	01/30/2001	Skern et al.	
		US- 6,180,389	01/30/2001	Douglas et al.	
		US- 6,180,402	1/30/2001	Granville et al.	
		US- 6,180,612	01/30/2001	Hockensmith et al.	
		US- 6,180,782	01/30/2001	Capuder	
		US- 6,183,984	02/06/2001	Fuchs	
		US- 6,183,993	02/06/2001	Boyce et al.	
		US- 6,183,174	02/06/2001	Kaiser et al.	
		US- 6,183,753	02/06/2001	Cochran et al.	
		US- 6,184,000	02/06/2001	Jones et al.	
		US- 6,184,017	02/06/2001	Smith et al.	
		US- 6,184,027	02/06/2001	Laine et al.	
		US- 6,184,034	02/06/2001	Eastman et al.	
		US- 6,187,250	02/13/2001	Champagne	
		US- 6,187,552	02/13/2001	Roberds et al.	
		US- 6,187,559	02/13/2001	Steed et al.	
		US- 6,187,564	02/13/2001	Sytkowski	
		US- 6,187,566	02/13/2001	Dattagupta et al.	
		US- 6,187,567	02/13/2001	Li et al.	

**FOREIGN PATENT DOCUMENTS**

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Sheet 2

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		US- 6,187,567	02/13/2001	Li et al.	
		US- 6,187,575	02/13/2001	Sobek et al.	
		US- 6,187,578	02/13/2001	Blinkovsky et al.	
		US- 6,187,585	02/13/2001	Bennett et al.	
		US- 6,187,760	02/13/2001	Ashley et al.	
		US- 6,187,823	02/13/2001	Haddon et al.	
		US- 6,203,814	03/20/2001	Fisher et al.	
		US- 6,331,262	12/18/2001	Haddon et al.	
		US- 6,399,365	06/04/2002	Besemer et al.	
		US- 6,413,722	07/02/2002	Arnold et al.	
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		US- 6,618,941	09/16/2003	Campbell et al.	
		US- 6,013,789	01/11/2000	Rampal	
		US- 6,017,731	01/25/2000	Tekamp-Olson et al.	
		US- 6,020,457	02/01/2000	Klimash et al.	
		US- 5,872,826	02/16/1999	Fujieda et al.	
		US- 6,043,336	03/28/2000	Miller et al.	
		US- 6,051,379	04/18/2000	Lescallett et al.	

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Sheet

3

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		US- 6,054,708	04/25/2000	Shimizu	
		US- 6,083,698	07/04/2000	Olson et al.	
		US- 6,083,708	07/04/2000	Singh et al.	
		US- 6,083,723	07/04/2000	Tekamp-Olson	
		US- 6,136,318	10/24/2000	Cochran et al.	
		US- 5,776,672	07/07/1998	Hashimoto et al.	
		US- 5,972,604	10/26/1999	Santamaria et al.	
		US- 5,747,244	05/05/1998	Sheridan et al.	
		US- 5,714,166	02/03/1998	Tomalia et al.	
		US- 5,712,383	01/27/1998	Sheridan et al.	
		US- 5,699,394	12/16/1997	Schreiber et al.	
		US- 5,658,273	08/19/1997	Long	
		US- 5,641,539	06/24/1997	Afeyan et al.	
		US- 5,612,468	03/18/1997	Hawkins et al.	
		US- 5,610,956	03/11/1997	Yokoyama et al.	
		US- 5,577,694	12/26/1996	Lee	
		US- 5,560,929	10/01/1996	Hedstrand et al.	
		US- 5,525,711	06/11/1996	Hawkins et al.	
		US- 5,472,888	12/05/1995	Kinzer	

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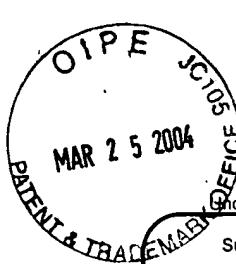
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		US- 6,136,568	10/24/2000	Hiatt et al.	
		US- 6,146,593	11/14/2000	Pinkel et al.	
		US- 6,159,742	12/12/2000	Lieber et al.	
		US- 6,171,861	01/09/2001	Hartley et al.	
		US- 6,172,197	01/09/2001	McCafferty et al.	
		US- 6,174,724	01/16/2001	Rogers et al.	
		US- 6,175,001	01/16/2001	Barbas et al.	
		US- 6,177,244	01/23/2001	Sytkowski et al.	
		US- 6,177,247	01/23/2001	Mathies et al.	
		US- 6,177,543	01/23/2001	Aggarwal et al.	
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		US- 4,701,792	10/20/1987	Guyot	
		US- 4,853,323	08/01/1989	Ikeda et al.	
		US- 4,853,550	08/01/1989	Schulz	
		US- 4,909,990	03/20/1990	Bock et al.	
		US- 4,946,824	08/07/1990	Meschke et al.	

**FOREIGN PATENT DOCUMENTS**

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**U. S. PATENT DOCUMENTS**

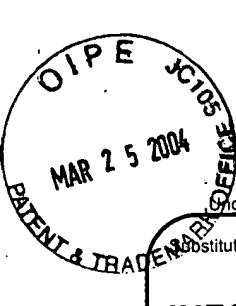
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1 ✓	R.W.MALONE et al., "Cationic Liposome-mediated RNA transfection", Proc. Natl. Acad. Sci. USA, vol 86, pp 6077-6081, August 1989	
	2 ✓	R.LEVENTIS et al., "Interactions of Mammalian Cells with Lipid Dispersions containing novel metabolizable cationic amphiphiles", Biochimica et Biophysica Acta, 1023, pp 124-132, 1990	
	3 ✓	W.SCHAFFNER, "Direct Transfer of Cloned genes from bacteria to mammalian cells", Proc. Natl. Acad. Sci, USA vol 77, pp 2163-2167, April 1980	
	4 ✓	H.K.KIMELBERG, "Differential Distribution of Liposome-Entrapped..." Biochimica et Biophysica Acta, 448 (1976) 531-550	
	5 ✓	G.STRUSS, "Freezing and Thawing of Liposome Suspensions", Liposome Technology, p197-219, CRC Press 1984	
	6 ✓	A.R.THIERRY et al., "Liposomal Delivery as a New Approach to Transport Antisense Oligonucleotides", Gene Regulation: Biology of Antisense RNA and DNA, Raven Press, Ltd. NY 1992, p147-161	
	7 ✓	W.E.MAGEE et al., "A Comparison of Negatively and Positively Charged Liposomes..." Biochimica et Biophysica Acta, 451 (1976) 610-618	
	8 ✓	S. KAWAI et al., "New Procedure for DNA Transfection with Polycation and Dimethyl Sulfoxide", Molecular and Cellular Biology, vol 4, no 6, June 1984, p1172-1174	
	9 ✓	E. NEUMANN et al., "Gene transfer into mouse lymphoma cells by electroportation in high electric fields", The EMBO Journal, Vol 1, No. 7, pp 841-845 (1982)	
	10 ✓	C.L.CEPKO et al, "Construction and Applications of a Highly Transmissible..." Cell, vol 37, p1053-1062, July 1984	

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(Use as many sheets as necessary)

Sheet 7

of 8

Complete if Known

Application Number	10/758,875
Filing Date	1/16/2004
First Named Inventor	Weiner, Michael L.
Art Unit	Unknown
Examiner Name	Unknown

Attorney Docket Number

MLW-630

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	11	W.E.MAGEE et al., "The Interaction of Cationic Liposomes..." J. Cell Biology, vol 63, 1974, pp 492-504	
	12	J.H.SENIOR et al., "Interation of Positively-Charged Liposomes with blood..." Biochimica et Biophysica Acta, 1070 (1991) 173-179	
	13	F.J.MARTIN et al, "Lipid Vesicle-Cell Interactions", J. Cell Biology, vol 70, (1976) pp 515-526	
	14	P.HUG et al, "Liposomes for the transformation of Eukaryotic cells", Biochimica et Biophysica Acta, 1097 (1991) 1-17	
	15	L.D.STEGER et al, "Enzyme Therapy VI..." Biochimica et Biophysica Acta 464 (1977) 530-546	
	16	H. FINK et al, "Electrical Conduction through DNA molecules", Nature, vol 398, April 1, 1999, p 407-410	
	17	J.P. KNEMEYER et al., "Probes for Detection of Specific DNA Sequences at the Single Molecule Level", Anal. Chem, 2000, vol 72, p3717-3724	
	18	G.P.MITCHELL et al, "Programmed Assembly of DNA Functionalized Quantum Dots", J. Am. Chem. Soc. 1999, vol 121, 8122-8123	
	19	X.ZHOU et al., "Targeted delivery of DNA by liposomes and polymers", J. Controlled Release 19 (1992) p 269-274	
	20	C.NICOLAU et al, "Liposomes as carriers of DNA", vol 6, issue 3, 1989, p 238-271	

Examiner Signature	Date Considered
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	21	P.L. FELGNER et al, "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure" Proc. Natl. Acad. Sci, USA vol 84, pp 7413-7417 November 1987	
	22	J.K.ROSE et al., "A New Cationic Liposome Reagent Mediating Nearly Quantitative Transfection of Animal Cells", Biotechniques vol 10, no 4, 1991 p 520-525	
	23	B.A.STILLMAN et al, "FAST (TM) Slides: A novel surface for Microarrays" Biotechniques, vol 29, no 3, 2000, p 630-635	
	24	F.L.GRAHAM et al., "A New Technique for the Assay of Infectivity of Human Adenovirus 5 DNA", Virology, 52, 456-467 (1973)	
	25	M.GRAESSMAN et al., "Microinjection and Organelle Transplantation Techniques", pp. 3-13 (Academic Press 1986)	
	26	R.L.JULIANO et al, "Pharmacokinetics of Liposome-Encapsulated Anti-tumor Drugs" Biochemical Pharmacology, vol 27, pp 21-27 1978	
	27	E.MAYHEW, "Inhibition of Tumor Cell Growth in Vitro and in Vivo by 1-B-D-Arabinofuranosylcytosine Entrapped..." Cancer Research 36, pp 4406-4411, Dec 1976	
	28	S.X. STRAUB, "Interferon Induction by Poly(I): Poly(C ) Enclosed in Phospholipid Particles, Infection and Immunity Oct 1974, p 783-792	

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